

#6

## RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/533310  
Source: PCT  
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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/533,310

DATE: 05/12/2005

TIME: 08:16:09

Input Set : A:\Q87626 Sequence Listing.txt  
 Output Set: N:\CRF4\05122005\J533310.raw

3 <110> APPLICANT: Meiji Seika, Ltd.  
 4       OKAKURA, Kaoru  
 5       YANAI, Koji  
 7 <120> TITLE OF INVENTION: NOVEL CELLULASE RESISTANT TO SURFACTANT  
 9 <130> FILE REFERENCE: Q87626  
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/533,310  
 C--> 11 <141> CURRENT FILING DATE: 2005-04-29  
 11 <150> PRIOR APPLICATION NUMBER: PCT/JP2003/014013  
 12 <151> PRIOR FILING DATE: 2003-10-31  
 14 <150> PRIOR APPLICATION NUMBER: JP 2002-318303  
 15 <151> PRIOR FILING DATE: 2002-10-31  
 17 <160> NUMBER OF SEQ ID NOS: 8  
 19 <170> SOFTWARE: PatentIn version 3.3  
 21 <210> SEQ ID NO: 1  
 22 <211> LENGTH: 205  
 23 <212> TYPE: PRT  
 24 <213> ORGANISM: Humicola insolens  
 27 <220> FEATURE:  
 28 <221> NAME/KEY: mat\_peptide  
 29 <222> LOCATION: (1)..(205)  
 31 <400> SEQUENCE: 1  
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 37 Ser Cys Ala Trp Pro Gly Lys Gly Pro Ala Pro Val Arg Thr Cys Asp  
 38        20                   25                   30  
 41 Arg Trp Asp Asn Pro Leu Phe Asp Gly Gly Asn Thr Arg Ser Gly Cys  
 42        35                   40                   45  
 45 Asp Ala Gly Gly Gly Ala Tyr Met Cys Ser Asp Gln Ser Pro Trp Ala  
 46        50                   55                   60  
 49 Val Ser Asp Asp Leu Ala Tyr Gly Trp Ala Ala Val Asn Ile Ala Gly  
 50        65                   70                   75                   80  
 53 Ser Asn Glu Arg Gln Trp Cys Cys Ala Cys Tyr Glu Leu Thr Phe Thr  
 54        85                   90                   95  
 57 Ser Gly Pro Val Ala Gly Lys Arg Met Ile Val Gln Ala Ser Asn Thr  
 58        100                   105                   110  
 61 Gly Gly Asp Leu Gly Asn Asn His Phe Asp Ile Ala Met Pro Gly Gly  
 62        115                   120                   125  
 65 Gly Val Gly Ile Phe Asn Ala Cys Thr Asp Gln Tyr Gly Ala Pro Pro  
 66        130                   135                   140  
 69 Asn Gly Trp Gly Gln Arg Tyr Gly Gly Ile Ser Gln Arg His Glu Cys  
 70        145                   150                   155                   160  
 73 Asp Ala Phe Pro Glu Lys Leu Lys Pro Gly Cys Tyr Trp Arg Phe Asp  
 74        165                   170                   175

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77 Trp Phe Leu Asn Ala Asp Asn Pro Ser Val Asn Trp Arg Gln Val Ser  
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81 Cys Pro Ala Glu Ile Val Ala Lys Ser Gly Cys Ser Arg  
82 195 200 205  
85 <210> SEQ ID NO: 2  
86 <211> LENGTH: 615  
87 <212> TYPE: DNA  
88 <213> ORGANISM: Humicola insolens  
90 <400> SEQUENCE: 2  
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93 cccggcaagg gcccggcgcc cgtgcggacg tgcgaccggg gggacaaccc gctgttcgac 120  
95 ggcggcaaca cgcgcagcgg gtgcgacgcg ggcggcggcg cctacatgtg ctcggaccag 180  
97 agcccggtgg cggtcagcga cgacctggcg tacggctggg cggccgtcaa cattggccgc 240  
99 tccaacgaga ggcagtggtg ctgcgcctgc tacgagctga cttcaccag cggccgggtg 300  
101 gcgggcaaga ggatgattgt gcaggcgagc aacacgggag gcgatttggg gaacaaccac 360  
103 tttatattt ctatgcccgg cggtggcgctc ggtatcttca acgcctgcac cgaccagtagc 420  
105 ggcgcgcccc ccaacggctg gggccagcgc tacggcggca tcagccaacg ccacgagtgc 480  
107 gacgccttcc ccgagaagct caagcccgcc tgctactggc gctttgactg gttcctcaac 540  
109 gcccacaacc cgagcgtcaa ctggcggcag gtcagctgcc cggccgagat tgtggccaag 600  
111 agcggctgtc cgcgt 615  
114 <210> SEQ ID NO: 3  
115 <211> LENGTH: 205  
116 <212> TYPE: PRT  
117 <213> ORGANISM: Artificial Sequence  
119 <220> FEATURE:  
120 <223> OTHER INFORMATION: A detergent-resistant cellulase  
122 <400> SEQUENCE: 3  
124 Gln Ser Gly Ser Gly Arg Thr Thr Arg Tyr Trp Asp Cys Cys Lys Pro  
125 1 5 10 15  
128 Ser Cys Ala Trp Pro Gly Lys Gly Pro Ala Pro Val Arg Thr Cys Asp  
129 20 25 30  
132 Arg Trp Asp Asn Pro Leu Phe Asp Gly Gly Asn Thr Arg Ser Gly Cys  
133 35 40 45  
136 Asp Ala Gly Gly Ala Tyr Met Cys Ser Asp Gln Ser Pro Trp Ala  
137 50 55 60  
140 Val Ser Asp Asp Leu Ala Tyr Gly Trp Ala Ala Val Asn Ile Ala Gly  
141 65 70 75 80  
144 Ser Asn Glu Arg Gln Trp Cys Cys Ala Cys Tyr Glu Leu Thr Phe Thr  
145 85 90 95  
148 Ser Gly Pro Val Ala Gly Lys Arg Met Ile Val Gln Ala Ser Asn Thr  
149 100 105 110  
152 Gly Gly Asp Leu Gly Asn Asn His Phe Asp Ile Ala Met Pro Gly Gly  
153 115 120 125  
156 Gly Val Gly Ile Phe Asn Ala Cys Thr Asp Gln Tyr Gly Ala Pro Pro  
157 130 135 140  
160 Asn Gly Trp Gly Gln Arg Tyr Gly Gly Ile Ser Gln Arg His Glu Cys  
161 145 150 155 160  
164 Asp Pro Phe Pro Glu Lys Leu Lys Pro Gly Cys Tyr Trp Arg Phe Asp  
165 165 170 175

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168 Trp Phe Leu Asn Ala Asp Asn Pro Ser Val Asn Trp Arg Gln Val Ser  
169 180 185 190  
172 Cys Pro Ala Glu Ile Val Ala Lys Ser Gly Cys Ser Arg  
173 195 200 205  
176 <210> SEQ ID NO: 4  
177 <211> LENGTH: 205  
178 <212> TYPE: PRT  
179 <213> ORGANISM: Artificial Sequence  
181 <220> FEATURE:  
182 <223> OTHER INFORMATION: A detergent-resistant cellulase  
184 <400> SEQUENCE: 4  
186 Gln Ser Gly Ser Gly Arg Thr Thr Arg Tyr Trp Asp Cys Cys Lys Pro  
187 1 5 10 15  
190 Ser Cys Ala Trp Pro Gly Lys Gly Pro Ala Pro Val Arg Thr Cys Asp  
191 20 25 30  
194 Arg Trp Asp Asn Pro Leu Phe Asp Gly Gly Asn Thr Arg Ser Gly Cys  
195 35 40 45  
198 Asp Ala Gly Gly Ala Tyr Met Cys Ser Asp Gln Ser Pro Trp Ala  
199 50 55 60  
202 Val Ser Asp Asp Leu Ala Tyr Gly Trp Ala Ala Val Asn Ile Ala Gly  
203 65 70 75 80  
206 Ser Asn Glu Arg Gln Trp Cys Cys Ala Cys Tyr Glu Leu Thr Phe Thr  
207 85 90 95  
210 Ser Gly Pro Val Ala Gly Lys Arg Met Ile Val Gln Ala Ser Asn Thr  
211 100 105 110  
214 Gly Gly Asp Leu Gly Asn Asn His Phe Asp Ile Ala Met Pro Gly Gly  
215 115 120 125  
218 Gly Val Gly Ile Phe Asn Ala Cys Thr Asp Gln Tyr Gly Ala Pro Pro  
219 130 135 140  
222 Asn Gly Trp Gly Gln Arg Tyr Gly Gly Ile Ser Gln Arg His Glu Cys  
223 145 150 155 160  
226 Asp Ala Phe Pro Glu Glu Leu Lys Pro Gly Cys Tyr Trp Arg Phe Asp  
227 165 170 175  
230 Trp Phe Leu Asn Ala Asp Asn Pro Ser Val Asn Trp Arg Gln Val Ser  
231 180 185 190  
234 Cys Pro Ala Glu Ile Val Ala Lys Ser Gly Cys Ser Arg  
235 195 200 205  
238 <210> SEQ ID NO: 5  
239 <211> LENGTH: 205  
240 <212> TYPE: PRT  
241 <213> ORGANISM: Artificial Sequence  
243 <220> FEATURE:  
244 <223> OTHER INFORMATION: A detergent-resistant cellulase  
246 <400> SEQUENCE: 5  
248 Gln Ser Gly Ser Gly Arg Thr Thr Arg Tyr Trp Asp Cys Cys Lys Pro  
249 1 5 10 15  
252 Ser Cys Ala Trp Pro Gly Lys Gly Pro Ala Pro Val Arg Thr Cys Asp  
253 20 25 30  
256 Arg Trp Asp Asn Pro Leu Phe Asp Gly Gly Asn Thr Arg Ser Gly Cys

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257	35	40	45	
260	Asp Ala Gly Gly Ala Tyr Met Cys Ser Asp Gln Ser Pro Trp Ala			
261	50	55	60	
264	Val Ser Asp Asp Leu Ala Tyr Gly Trp Ala Ala Val Asn Ile Ala Gly			
265	65	70	75	80
268	Ser Asn Glu Arg Gln Trp Cys Cys Ala Cys Tyr Glu Leu Thr Phe Thr			
269	85	90	95	
272	Ser Gly Pro Val Ala Gly Lys Arg Met Ile Val Gln Ala Ser Asn Thr			
273	100	105	110	
276	Gly Gly Asp Leu Gly Asn Asn His Phe Asp Ile Ala Met Pro Gly Gly			
277	115	120	125	
280	Gly Val Gly Ile Phe Asn Ala Cys Thr Asp Gln Tyr Gly Ala Pro Pro			
281	130	135	140	
284	Asn Gly Trp Gly Gln Arg Tyr Gly Gly Ile Ser Gln Arg His Glu Cys			
285	145	150	155	160
288	Asp Pro Phe Pro Glu Glu Leu Lys Pro Gly Cys Tyr Trp Arg Phe Asp			
289	165	170	175	
292	Trp Phe Leu Asn Ala Asp Asn Pro Ser Val Asn Trp Arg Gln Val Ser			
293	180	185	190	
296	Cys Pro Ala Glu Ile Val Ala Lys Ser Gly Cys Ser Arg			
297	195	200	205	
300	<210> SEQ ID NO: 6			
301	<211> LENGTH: 27			
302	<212> TYPE: DNA			
303	<213> ORGANISM: Artificial Sequence			
305	<220> FEATURE:			
306	<223> OTHER INFORMATION: A primer for site-directed mutagenesis			
308	<400> SEQUENCE: 6			
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312	<210> SEQ ID NO: 7			
313	<211> LENGTH: 27			
314	<212> TYPE: DNA			
315	<213> ORGANISM: Artificial Sequence			
317	<220> FEATURE:			
318	<223> OTHER INFORMATION: A primer for site-directed mutagenesis			
320	<400> SEQUENCE: 7			
321	cttgagctcc tcggggaaagg cgtcgca		27	
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325	<211> LENGTH: 30			
326	<212> TYPE: DNA			
327	<213> ORGANISM: Artificial Sequence			
329	<220> FEATURE:			
330	<223> OTHER INFORMATION: A primer for site-directed mutagenesis			
332	<400> SEQUENCE: 8			
333	gagctcctcg ggaaagggtt cgcaactcggt		30	

**VERIFICATION SUMMARY**  
PATENT APPLICATION: US/10/533,310

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L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date